

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER
050508-1390
U.S. APPLICATION NO. (IF KNOWN)
107575816

INTERNATIONAL APPLICATION NO. PCT/US04/34391	INTERNATIONAL FILING DATE 18 October 2004	PRIORITY DATE CLAIMED 17 October 2003
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TITLE OF INVENTION
METHODS AND COMPOSITIONS FOR MODULATING GAMETE ADHESION

APPLICANT(S) FOR DO/EO/US:

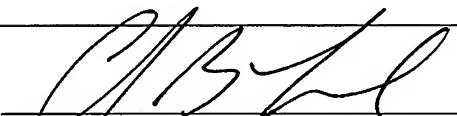
Shur, et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. The US has been elected (Article 31).
5. A copy of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. is attached hereto (required only if not communicated by the International Bureau).
 - b. has been communicated by the International Bureau
 - c. is not required, as the application was filed in the United States Receiving Office (RO/US).
6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. is attached hereto.
 - b. has been previously submitted under 35 U.S.C. 154(d)(4).
7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).
 - a. are attached hereto (required only if not communicated by the International Bureau).
 - b. have been communicated by the International Bureau.
 - c. have not been made; however, the time limit for making such amendments has NOT expired.
 - d. have not been made and will not be made
8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.
12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. A preliminary amendment
14. An Application Data Sheet under 37 CFR 1.76.
15. A substitute specification.
16. A power of attorney and/or change of address letter.
17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.
18. A second copy of the published international application under 35 U.S.C. 1.54(d)(4).
19. A second copy of the English language translation of the international application under 35 U.S.C. 1.54(d)(4).
20. Other items or information: **Statement Regarding Sequence Listing Complying with Standard; Sequence Listing; Notification Concerning Transmittal of Copy of International Application as Published or Republished; International Search Report; Written Opinion; PCT Request.**

U.S. APPLICATION NO. (IF KNOWN) 107575816		INTERNATIONAL APPLICATION NO. PCT/US04/34391	ATTORNEY'S DOCKET NO.: 050508-1390																																
<p>The following fees are submitted:</p> <table> <tr> <td>21. <input checked="" type="checkbox"/> Basic national fee</td> <td>\$300.00</td> <td colspan="2">CALCULATIONS</td> </tr> <tr> <td>22. <input checked="" type="checkbox"/> Examination Fee</td> <td></td> <td>\$300.00</td> <td>PTO USE ONLY</td> </tr> <tr> <td>If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33 (1)-(4)</td> <td>\$100.00</td> <td>\$100.00</td> <td></td> </tr> <tr> <td>All other situations</td> <td>\$200.00</td> <td></td> <td></td> </tr> <tr> <td>23. <input checked="" type="checkbox"/> Search Fee</td> <td></td> <td>\$100.00</td> <td></td> </tr> <tr> <td>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority</td> <td>\$100.00</td> <td></td> <td></td> </tr> <tr> <td>International Search Report prepared and provided to the Office</td> <td>\$400.00</td> <td></td> <td></td> </tr> <tr> <td>All other situations</td> <td>\$500.00</td> <td></td> <td></td> </tr> </table> <p>TOTAL OF 21, 22, and 23 =</p> <p><input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 pages (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250.00 for each additional 50 sheets of paper or fraction thereof.</p>				21. <input checked="" type="checkbox"/> Basic national fee	\$300.00	CALCULATIONS		22. <input checked="" type="checkbox"/> Examination Fee		\$300.00	PTO USE ONLY	If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33 (1)-(4)	\$100.00	\$100.00		All other situations	\$200.00			23. <input checked="" type="checkbox"/> Search Fee		\$100.00		Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority	\$100.00			International Search Report prepared and provided to the Office	\$400.00			All other situations	\$500.00		
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All other situations	\$500.00																																		
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE																																
- 100 =	/50 =		X \$250.00																																
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).			\$130.00																																
CLAIMS		NUMBER FILED	NUMBER EXTRA																																
Total claims		19 - 20 =	0																																
Independent claims		2 - 3 =	0																																
Multiple Dependent Claims (check if applicable).			\$360.00																																
TOTAL OF ABOVE CALCULATIONS =																																			
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.																																			
SUBTOTAL =																																			
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).																																			
TOTAL NATIONAL FEE =																																			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) \$40.00 per property +																																			
TOTAL FEES ENCLOSED =																																			
		Amount to be refunded	\$																																
		Amount to be charged	\$																																
a. <input type="checkbox"/> A check in the amount of _____ to cover the above fees is enclose.																																			
b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.																																			
c. <input checked="" type="checkbox"/> A duplicate copy of this sheet is enclosed.																																			
d. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 20-0778. A duplicate copy of this sheet is enclosed.																																			
e. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.																																			
<p>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p>Christopher B. Linder, Ph.D. Thomas, Kayden, Horstemeyer & RISLEY, L.L.P. 100 Galleria Parkway, Suite 1750 Atlanta, Georgia 30339</p> <p>(770) 933-9500 (Phone) (770) 951-0933 (Fax)</p>																																			
		 Signature Christopher B. Linder, Ph.D. Name 47,751 Registration Number Date																																	

10/575816

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: **Shur, et al.**

1AP20 Rec'd PCT/PTO 14 APR 2006

For: **Methods and Compositions for Modulating Gamete Adhesion**

CERTIFICATE OF EXPRESS MAIL

Mail Stop PCT (DO/EO/US)
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

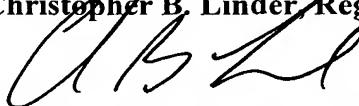
Enclosed for filing in the above case are the following documents:

Return Postcard
Transmittal Letter to the US Designated Office
(DO/EO/US) (2 Pages)
Copy of Published International Application Consisting of:
Publication Page
57 Pages of Specification
4 Pages of Claims
8 Pages of Drawings;
Notification Concerning Transmittal of Copy of International
Application as Published or Republished;
Preliminary Amendment (5 Pages);
International Search Report;
Written Opinion;
Statement Regarding Sequence Listing Complying with Standard;
Sequence Listing
Sequence Listing Diskette;
PCT Request;
Copy of Original Application as Filed;
Response Regarding Electing Group I in the International Search
Report;
Deposit Account Authorization in the amount of \$315.00

Further, the Commissioner is authorized to charge Deposit Account No. 20-0778 for any additional fees required. The Commissioner is requested to credit any excess fee paid to Deposit Account No. 20-0778.

Respectfully submitted,

Christopher B. Linder, Reg. No. 47,751


**THOMAS, KAYDEN, HORSTEMEYER
& RISLEY, L.L.P.**
100 Galleria Parkway, N.W.
Suite 1750
Atlanta, Georgia 30339-5948

Our Docket No: **050508-1390**

I hereby certify that all correspondences listed above are being deposited for delivery to the above addressee, with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 CFR §1.10 on the date indicated below:

The envelope has been given U.S. Postal Service "Express Mail Post Office To Addressee" Package # EV 861590740US.

Date: 4/14/08


Sara Rogers

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
INTERNATIONAL SEARCH AUTHORITY FOR PCT APPLICATIONS

In Re PCT Application of:)
Emory University et al.) Authorized Officer:
PCT Application No.: PCT/US04/34391) Karen Cochrane Carlson, Ph.D.
Filed: 18 October 2004) Docket No. 050508-2390
For: METHODS AND COMPOSITIONS FOR)
MODULATING GAMETE ADHESION)

**RESPONSE REGARDING ELECTING GROUP I IN THE INTERNATIONAL
SEARCH REPORT**

Mail Stop PCT
Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

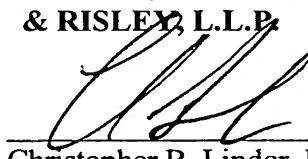
In response to the Invitation to Pay Additional Fees that was mailed on 23 June 2005, Applicant has decided to only elect Group I. Therefore, please do not pay any additional examining fees on Groups 2-12.

The Commissioner is authorized to charge deposit account 20-0778 for any insufficiencies and credit any overpayments thereto.

Respectfully Submitted,

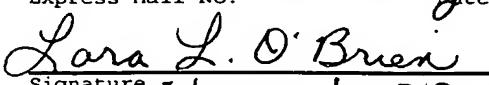
**THOMAS, KAYDEN, HORSTEMEYER
& RISLEY, L.L.P.**

By:


Christopher B. Linder, Ph.D.
Registration No. 47,751

100 Galleria Parkway, Suite 1750
Atlanta, Georgia 30339
770-933-9500

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Post Office to Addressee, in an envelope addressed to: Mail Stop PCT, Attn: ISA/US, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
EV558410855US 21 July 2005
Express Mail No. _____ Date _____


Signature - Lara L. O'Brien